

EDUCATION

Ph.D., Chemistry, May 1997, Rensselaer Polytechnic Institute, Troy, NY
Thesis Title: "High-Temperature Kinetics of Elementary Reactions of Importance to Waste Incineration"

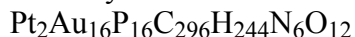
Focus:

- Kinetics of O-atom reactions with chlorinated hydrocarbons in the gas phase from 300 to 1500 K using the high-temperature photochemistry (HTP) technique
- Kinetics of metallic species oxidation reactions in the gas phase from 300 to 1500 K using the high-temperature fast-flow reactor (HTFFR)

M.S., Chemistry, July 1992, University of Minnesota, Minneapolis, MN

Thesis Title: "Chemistry of Mixed-Metal-Gold Clusters with Isonitrile Ligands"

Focus: Synthesis and characterization of a novel cluster compound; proposed formula:



B.S., Chemistry, October 1989, university of Belgrade, Belgrade, Yugoslavia

EXPERIENCE

MOTOROLA INC, staff scientist, April 1998-February 2001

- Member of Design for Environment team: worked on problems related to environmental regulations of interest to electronic industry; co-authored a specification for environmentally friendly packaging and printed material; involved in development of Pb-free soldering capability: performed metallurgical analysis of solder joints in the series of prototype products processed with Pb-free solder; reverse-engineered solder joints in "Pb-free" competitor product; thermal analysis of Bi-containing Pb-free soldering alloys
- Performed materials failure analysis on cellular phone products and components: solving factory line, field return, and design problems concerning plastics, adhesives, printed circuit boards, etc.

ARGONNE NATIONAL LABORATORY, postdoctoral fellow, May 1997-April 1998

- Performed *ab initio* electronic structure and transition state theory calculations for small organic species using Hyperchem and Gaussian 94 computational packages
- Participated in kinetic studies of $\text{CF}_3 + \text{H}_2$, $\text{CF}_3\text{H} + \text{H}$, and CF_3Br thermal decomposition reactions by shock tube technique

PUBLICATIONS

- (1) E. Bradley, III and J. Hranisavljevic, **50th Electronic Components and Technology Conference, Proceedings**, Las Vegas, NV, May 2000, for publication in **IEEE Transactions For Electronic Packaging Manufacturing**
- (2) J. Hranisavljevic, S. S. Kumaran, and J. V. Michael; **Journal of Physical Chemistry**, **1998**, **102**, 7668
- (3) J. Hranisavljevic, S. S. Kumaran, and J. V. Michael; **27th Symposium (International) on Combustion [Proceedings] 1998**, 159
- (4) J. Hranisavljevic, J. J. Carroll, M. -C. Su, and J. V. Michael; **International Journal of Chemical Kinetics**, **1998**, **30**, 859
- (5) J. Hranisavljevic and A. Fontijn; **Journal of Physical Chemistry**, **1997**, **101**, 2323
- (6) D. P. Belyung, J. Hranisavljevic, G. M. Santana, O. Kashireninov, A. Fontijn, and

- (7) P. Marshall; *Journal of Physical Chemistry*, 1996, 100, 17835
- (8) J. Hranisavljevic and A. Fontijn; *Journal of Physical Chemistry*, 1995, 99, 12809
- (9) M.-C. Su, K. P. Lim, J. V. Michael, J. Hranisavljevic, Y. M. Xun, and A. Fontijn;
Journal of Physical Chemistry, 1994, 98, 8411
- (10) J. Hranisavljevic, G. Y. Adusei, Y. M. Xun, and A. Fontijn; *Combustion Science and Technology*, 1994, 101, 231